Ana M Laguna

List of Publications by Year
in descending order

26 papers	585 citations	759233 12 h-index	610901 24 g-index
27 all docs	27 docs citations	27 times ranked	1011 citing authors

#	Article	IF	Citations
1	Impact of historical land use and soil management change on soil erosion and agricultural sustainability during the Anthropocene. Anthropocene, 2017, 17, 13-29.	3.3	156
2	Controls on soil carbon storage from topography and vegetation in a rocky, semi-arid landscapes. Geoderma, 2018, 311, 159-166.	5.1	57
3	Applying a simple methodology to assess historical soil erosion in olive orchards. Geomorphology, 2010, 114, 294-302.	2.6	53
4	Efficiency of four different seeded plants and native vegetation as cover crops in the control of soil and carbon losses by water erosion in olive orchards. Land Degradation and Development, 2018, 29, 2278-2290.	3.9	43
5	Physically Based Estimation of Soil Water Retention from Textural Data: General Framework, New Models, and Streamlined Existing Models. Vadose Zone Journal, 2007, 6, 766-773.	2.2	41
6	An assessment of policies affecting Sustainable Soil Management in Europe and selected member states. Land Use Policy, 2017, 66, 241-249.	5.6	39
7	Reconstructing long-term gully dynamics in Mediterranean agricultural areas. Hydrology and Earth System Sciences, 2017, 21, 235-249.	4.9	26
8	The description of soil erosion through a kinematic wave model. Journal of Hydrology, 1993, 145, 65-82.	5.4	25
9	Continuous time random walks for analyzing the transport of a passive tracer in a single fissure. Water Resources Research, 2005, 41, .	4.2	23
10	Recognition of materials and damage on historical buildings using digital image classification. South African Journal of Science, 2015, 111, 1-9.	0.7	19
11	Study of sediment movement in an irrigated maize–cotton system combining rainfall simulations, sediment tracers and soil erosion models. Journal of Hydrology, 2015, 524, 227-242.	5.4	18
12	Bioturbation and erosion rates along the soil–hillslope conveyor belt, part 2: Quantification using an analytical solution of the diffusion–advection equation. Earth Surface Processes and Landforms, 2019, 44, 2066-2080.	2.5	15
13	Evaluation of linear and nonlinear sediment transport equations using hillslope morphology. Catena, 2005, 64, 272-280.	5.0	10
14	The influence of the geometry of idealised porous media on the simulated flow velocity: A multifractal description. Geoderma, 2009, 150, 196-201.	5.1	10
15	Estimation of the role of obstacles in the downslope soil flow with a simple erosion model: the analytical solution and its approximation with the lattice Boltzmann model. Catena, 2004, 57, 261-275.	5.0	8
16	Modelling the effects of emergent vegetation on an open-channel flow using a lattice model. International Journal for Numerical Methods in Fluids, 2007, 55, 655-672.	1.6	8
17	Simulation of Tracer Dispersion in Porous Media Using Lattice Boltzmann and Random Walk Models. Vadose Zone Journal, 2005, 4, 310-316.	2.2	7
18	Multifractal analysis of flow velocity simulated with the lattice model approach in idealized three–dimensional porous media. Water Resources Research, 2007, 43, .	4.2	6

#	Article	IF	Citations
19	Concurrent variability of soil moisture and apparent electrical conductivity in the proximity of olive trees. Agricultural Water Management, 2021, 245, 106652.	5.6	6
20	Simulation of long‑term soil redistribution by tillage using a cellular automata model. Earth Surface Processes and Landforms, 2010, 35, 761-770.	2.5	5
21	Description of sorbing tracers transport in fractured media using the lattice model approach. Journal of Contaminant Hydrology, 2005, 81, 187-204.	3.3	3
22	Evaluating a general sediment transport model for linear incisions under field conditions. Earth Surface Processes and Landforms, 2009, 34, 1852-1857.	2.5	3
23	An educational computer tool for simulating long‑term soil erosion on agricultural landscapes. Computer Applications in Engineering Education, 2009, 17, 253-262.	3.4	2
24	Exploring the effects of the vegetation on passive tracer transport by using the multifractal analysis. Geoderma, 2010, 160, 126-130.	5.1	1
25	Multifractal analysis of passive tracer transport in simulated skimming and wake interference flows. Physics of Fluids, 2007, 19, .	4.0	0
26	Numerical Study of the Transition Regime between the Skimming and Wake Interference Flows in a Water Flume by Using the Lattice-Model Approach. Journal of Hydraulic Engineering, 2008, 134, 274-279.	1.5	0